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The memory fragmentation problem: Solved?

psu.edu [PDF]

MS Johnstone, PR Wilson - ACM SIGPLAN Notices, 1999 - portal.acm.org
... This **allocator** is a **segregated fit** algorithm with 128 size classes. ... **Table** 2: Maximum number of live objects per size class ... hand-optimized memory **allocation**, because a well-designed **allocator** should usually be able to do as well as or better than most programmers' hand ...
Cited by 139 - Related articles - BL Direct - All 21 versions

TLSF: A new dynamic memory **allocator** for real-time systems

upv.es [PDF]

M Masmano, I Ripoll, A Crespo, J Real - 16th Euromicro Conference ... - ieeexplore.ieee.org
... that Doug Lea's **allocator** [6], which implements a good-fit policy (a nearly best-fit based on a **segregated fit** policy), performs ... It is also possible that the **allocator** relies on the underlying OS (or the hardware MMU) to request new memory areas to ... First **allocation** requests are ...
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Memory **allocation** with lazy fits

psu.edu [PDF]

Y Chung, SM Moon - ... of the 2nd international symposium on ..., 2000 - portal.acm.org
... A backup **allocation** with a **segregated fit** when **allocation** with a pointer increment fails, on ... fitting algorithms would be used even more in- frequently than in **table** 6. Since ... Lea's memory **allocator** implementation uses something sim- ilar to pointer incrementing **allocation** in order ...
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Implementation of a constant-time dynamic storage **allocator**

psu.edu [PDF]

M Masmano, I Ripoll, J Real, A ... - Software: Practice ..., 2008 - interscience.wiley.com
... 16], the authors presented a new **allocator** called TLSF (two-level **segregated fit**) and compared ... Temporal requirements: The primary requirement for any real-time **allocator** is to provide allo ... The worst-case execution time (WCET) of memory **allocation** and deallocation has to be ...
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[HTML] Magazines and vmem: Extending the slab **allocator** to many CPUs and arbitrary resources

usenix.org [HTML]

J Bonwick, J Adams - usenix.org
... If the **map** ever gets more fragmented than that, the **allocator** throws away resources ... allocated segments (white) are also linked into an allocated-segment hash **table**, and boundary ... This

approach, called **segregated fit**, actually approximates best-fit because any segment on the ...
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Dynamic storage allocation for real-time embedded systems   psu.edu [PDF]

M Masmano, I Ripoli, A Crespo - Proceedings of the Real-Time Systems ..., 2003 - Citeseer
... The basic **segregated fit** mechanism uses an array of free lists, with each array holding free blocks
within a ... search sequence is as follows: 1.- calculate the "f" and "s" indexes (using the **map**- ping
function ... An algorithm with constant execu- tion time for dynamic storage **allocation**. ...
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Dynamic memory management for embedded real-time systems   psu.edu [PDF]

A Crespo, I Ripoll, M Masmano - From Model-Driven Design to Resource ..., 2006 - Springer
... TLSF (Two Level **Segregated Fit**) is a new **allocator** has been designed specif- ically to meet
real-time constraints. ... **Table** 2. Fragmentation worst-case ... problem is a problem of "poor" **allocator**
implementations rather than an intrinsic characteristic of the **allocation** problem itself A ...
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A comparison of memory allocators for real-time applications

M Masmano, I Ripoli, A Crespo - ... on Java technologies for real-time ..., 2006 - portal.acm.org
... TLSF (Two-Level **Segregated Fit**) [11] is a bounded-time, good-fit **allocator**. ... **Table** 1: Algorithm
complexity **Allocation** Deallocation First-fit/Best-fit O (H 2M) O(1) Binary-buddy O(log2 (H M))
O(log2 (H M)) DLalloc O (H M) O(1) Half-fit O(1) O(1) TLSF O(1) O(1) ...
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Efficient system-level prototyping of power-aware dynamic memory managers for embedded systems   psu.edu [PDF]

D Atienza, S Mamagkakis, F Poletti, JM ... - INTEGRATION, the VLSI ..., 2006 - Elsevier
... This example is depicted in Fig. 3. Thus, we can merge the two **allocation** heaps saving memory
footprint because the memory can be reused for both. ... For the results shown in Figs. 5, 8, and
Table 2, we use the View the MathML source technology node. ...
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A high-performance memory **allocator** for memory intensive applications

JM Chang, Y Hasan, WH Lee - hpc, 2000 - computer.org
... process is much efficient than splitting process which is used in conventional **segregated fit**
algorithms ... The different **allocation** bits used enable free() to differentiate between pre-allocated
chunks to be ... Next **table** provides a summary of the size of the tested programs (in terms of ...
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